

ELECTRONIC TUBE REFERENCE

8456

Nuvistor Tubes (all numbers) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Triode for RF, audio, control, or industrial electronic service; source data do not support a narrower parent category confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	8.5 V / 850 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1530 Ω
TRANSCONDUCTANCE	0.0075 S
MAXIMUM PLATE VOLTAGE	50 V
MAXIMUM CATHODE CURRENT	15 mA
Published promoted values applied where semantically applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.	

Power or transmitting triode for RF, audio, control, or industrial service. The supplied datasheet was reviewed for heater/filament data, maximum ratings, characteristics, typical operating conditions, capacitances, and construction details.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 3 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heater voltage – published value 1	6 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
heater voltage – published value 2	8.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate	2.1 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to cathode, shell , and heater	4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode, shell , and heater	1.7 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode	0.34 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode	1.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	24 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx)	1530 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance	7500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	8.7 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate μ a=50 – published value 1	50 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate μ a=50 – published value 2	-5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4 -Grid	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 10 -Heater	10	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 12 -Heater	12	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage – published value 1	12 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage – published value 2	24 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage	-0.7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Resistor	33000 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx.) – published value 1	1500 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx.) – published value 2	1500 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance – published value 1	8000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance – published value 2	8000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current – published value 1	5.5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current – published value 2	9.5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
snell temperatures above 150° C, see accompanying Grid-Circuit-Re	150	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 1	0	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 2	85	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 3	0.85	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate – published value 2	1.8 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate – published value 3	2.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
shell, and heater 2 – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
shell, and heater 2 – published value 2	3.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
shell, and heater 2 – published value 3	4.6 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
shell, and heater 2 – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
shell, and heater 2 – published value 2	1.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
shell, and heater 2 – published value 3	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 2	0.26 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 3	0.42 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode. 2 – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode. 2 – published value 2	1.1 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode. 2 – published value 3	1.7 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (i) – published value 1	1 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (i) – published value 2	3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (i) – published value 3	6.7 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (i) – published value 4	10 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) – published value 3	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current (2) – published value 4	50	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance 11) 1,3 – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance 11) 1,3 – published value 2	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance 11) 1,3 – published value 3	6500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance 11) 1,3 – published value 4	8500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) 3,5 – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) 3,5 – published value 2	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) 3,5 – published value 3	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) 3,5 – published value 4	5700	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current 1,6 – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current 1,6 – published value 2	6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current 1,6 – published value 3	0.05	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 3 – published value 1	3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 3 – published value 2	2 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Note 6 – published value 1	6 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 6 – published value 2	-2 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
grid Cl rcuit resiSLanCe (megohms) ~ 1 (the internal reslsLenCe	1 Mohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 7 – published value 1	7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 7 – published value 2	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note e	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 9 – published value 1	9 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 9 – published value 2	300 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and Shorts, Transconductance I I 1, Reverse Grid Current, and	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and Shorts, Transconductance 1 1 1, Reverse Grid Current, and – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and Shorts, Transconductance 1 1 1, Reverse Grid Current, and – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and Shorts, Transconductance 1 1 1, Reverse Grid Current, and – published value 3	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
frequency range from 5 to 500 cps and back to 5 cps. One such – published value 1	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
frequency range from 5 to 500 cps and back to 5 cps. One such – published value 2	500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
frequency range from 5 to 500 cps and back to 5 cps. One such – published value 3	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater-Cycling Life (100 Hours)	100	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
production run with heater volts = 1 .35x specified center	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
value cyc Led I minute ON and 2 minutes OFF, do heater-cathode	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	50 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Negative-bias value	55 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Current	2 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode Current	15 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Dissipation	0.45 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For fixed-bias operation	10 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For cathode-bias operation	10 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

TUBE TINKER

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